EverServ 7000
M7700-XX
Users Guide

PN770503801

This material has been created in order to accommodate a wide range of restaurant operations and your specific business practices and system configuration may differ slightly from what is represented in this material. While ParTech, Inc. ("PAR") takes great care to ensure the accuracy of these materials, all material is provided "as is" without warranty of any kind, either express or implied, including, but not limited to, warranties of merchantability or fitness for a particular purpose. PAR does not make any warranties or representations that the materials will meet your requirements or that the operations of the hardware will be uninterrupted or error free.

Trademark Notices: The PAR logo, Boundless Hospitality by PAR logo, PAR EverServ™, the PAR EverServ logo and PixelPoint® are all trademarks of PAR Technology Corporation, the parent company of ParTech, Inc. or its affiliates. All other product names used throughout this material are trademarks of the respective companies. No such use of any trademark is intended to convey endorsement or other affiliation with these companies.

Reproduction: **Copyright © 2010 ParTech, Inc. All rights reserved.** This publication, or any part thereof, may not be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, storage in an information retrieval system, or otherwise, without the prior written permission of ParTech, Inc., PAR Technology Park, 8383 Seneca Turnpike, New Hartford, NY 13413-4991; Phone: (315) 738-0600.

TABLE OF CONTENTS

INTRODUCTION 4
GLOSSARY OF TERMS 4
EQUIPMENT DESCRIPTION 5
SPECIFICATIONS 7
MOUNTING 8
WALL MOUNT 9
BIOS 13
Introduction 13
Starting Setup 13
Using Setup 13
Getting Help 13
BIOS Menu Bar 13
Main 14
Advanced 15
ACPI Configuration 16
S5 RTC Wake Settings 17
CPU Configuration 18
SATA Configuration 19
Intel ® Rapid Start Technology 19
Intel TXT (LT) Configuration 20
PCH-FW Configuration 21
Intel Anti-Theft Technology Configuration 22
AMT Configuration 23
Acoustic Management Configuration 23
USB Configuration 24
SMART Settings 25
Super IO Configuration 26
Hardware Health Configuration 27
Intel ® Smart Connect Technology 28
Network Stack 29
Intel RC Drivers Version Detail 30
CPU PPM Configuration 30
Chipset 31
Boot 32
Security Settings 33
Exit 34
Event Log Configuration 35
ROUTINE MAINTENANCE 36
CARE OF EQUIPMENT 36
CLEANING EQUIPMENT 36

INTRODUCTION

The following guide provides information about the EverServ 7000. It is presented in five sections as outlined in the table below.

Introduction	Register cabling diagram, sample system configurations.
Equipment Description	Specifications, a detailed description of each system components.
Turn On/Off	Turning on/off EverServ register.
Mounting	Attaching EverServ 7000 unit to wall mount.
BIOS	Provides information on BIOS configurations.

GLOSSARY OF TERMS

- LCD – Liquid Crystal Display
- VGA – Video Graphics Array
- EFT – Electronic Funds Transfer
- LAN – Local Area Network
- DDR – Double Date Rate
- POS – Point of Sale
- BIOS – Basic Input Output System
- PCI – Peripheral Component Interconnect
- PnP – Plug and Play
- IDE – Integrated/Intelligent Drive Electronics
- ACPI – Advanced Configuration and Power Interface

EQUIPMENT DESCRIPTION

POS REGISTER

	Item	Description
1.	Power Indicator	Shows that power is present, blinks when unit is in sleep mode.
2.	LCD Display	A touch screen that shows programming or order information.
3.	Magnetic card reader	Accepts employee keycards. Provides access to functions. Not present on all registers.
4.	Pedestal Cable Access Door	Allows access to cables from pedestal of unit.
5.	Customer Display	Displays to the customer order total, tax total, and any change due. It may also show present advertisement information or messages.

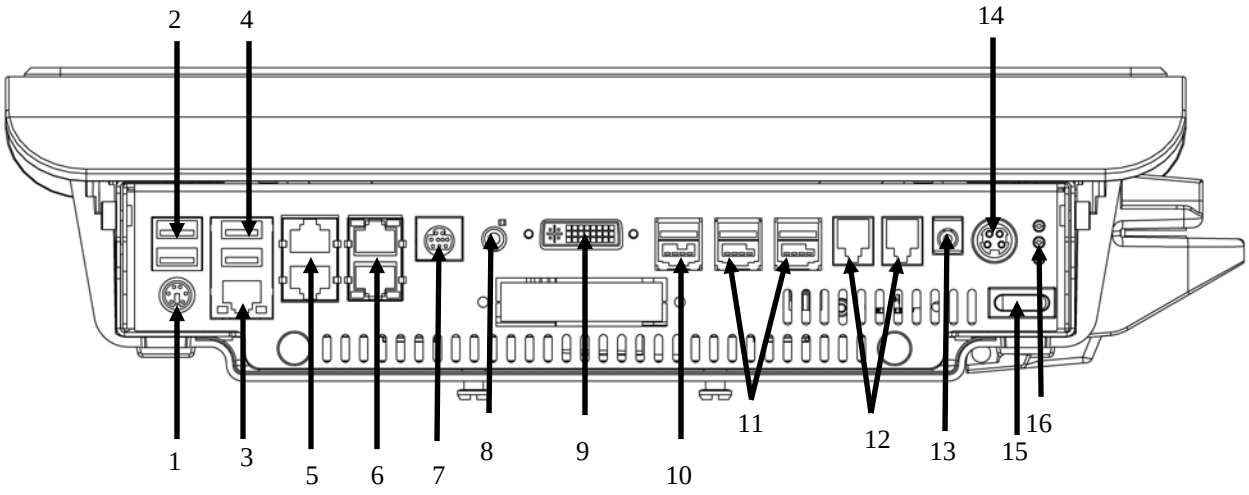
CONNECTOR WELLS

	Item	Description
1.	PS2 Port	Allows connection of a PC keyboard or mouse.
2.	USB 2.0 Ports	Connects to coin dispensers, remote customer displays, remote order displays, EFT devices, printers.
3.	Network Port	Connects to a LAN cable.
4.	USB 3.0 Ports	Connects to coin dispensers, remote customer displays, remote order displays, EFT devices, printers.
5.	COM RJ45 Port	Connects to external peripherals.
6.	COM RJ45 Port	Connects to external peripherals, supplies power +12V or +5V.
7.	COM 5	Connects to customer display VFD options 4x20, graphic VFD.
8.	Audio Jack	Connects audio devices like speakers or headphones.
9.	DVI-I	Connects to external digital or analog display.
10.	24V Power USB	Connects to powered USB devices.
11.	12V Power USB	Connects to powered USB devices.
12.	Cash Drawer Receptacles	Connects to cash drawers.
13.	12V Power	Connects to other devices like coin dispensers or printers.
14.	19V Power Input	Provides DC power to unit.

NOTE: Power must be removed prior to motherboard chassis removal. Trained personnel only. Thumbscrews should be tightened with a tool after both initial installation and subsequent access to the panel.

15.	Power Switch	Provides power for removable head display.
16.	LED Status Lights	LED indicators for standby (rd), HDD (green), and PWR (green).

NOTE:
TOTAL COMBINED OUTPUT OF 24V PWR USB, 2X12V PWR USB, AND 12V ACCESSORY OUTPUT IS 100W MAX.
CASH DRAWER OUTPUT: TYP 24V@1AMP 200MS, MAX 24V@1AMP 500MS.
CD2 WILL NOT FIRE UNTIL CD1 SHUTS DOWN, AND VICE VERSA.



SPECIFICATIONS

FEATURES

Description	Part Number
TOUCH:	
Projected CAP	M7700-00
Flat Resistive	M7700-10
Surface CAP	M7700-20
Standard Resistive	M7700-30
PROCESSORS:	
i5-2390T	F7142
i3-2100T	F7141
G620T Pentium	F7140
MEMORY:	
4GB DDR3 SDRAM	F7240
8GB DDR3 SDRAM	F7241
16GB DDR3 SDRAM	F7242
DISPLAYS:	
4x20 VFD on Pedestal	F7621
POP (Paper Insert)	F7643
Dbl Byte VFD	F7624
None	F7620
12” 1024x768 Graphics LCD	M7555-01
MAGNETIC STRIP READERS:	
Blank Cover Plate	F7340
3 Track USB Swipe Reader	F7342
3 Track PS/2 Reader	F7343
2 Track	F7341
PROGRAM/DATA STORAGE:	
320 GB 2.5” SATA HDD	F7440
320 GB 2.5” w/RAID	F7442
32 GB SSD 2.5” SATA HDD	F7445
8 GB SD	F7417B
KITS:	
Mounting	K7022
MISCELLANEOUS OPTIONS:	
SD Flash Disk:	
2GB	266004402
4GB	266004403
8GB	266004404

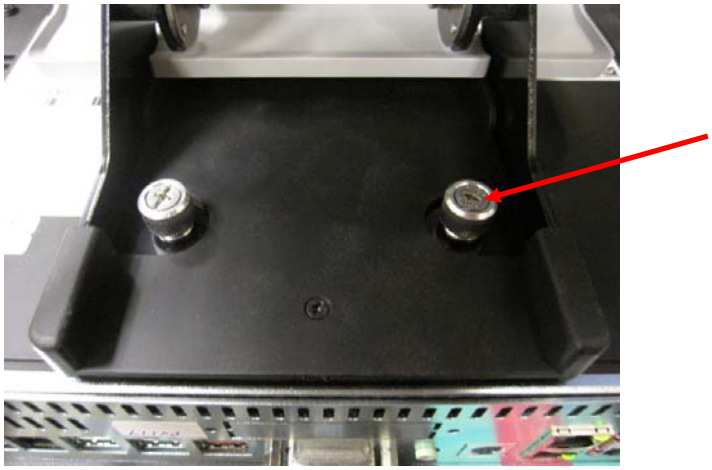
MOUNTING

If you are converting your counter POS to a wall mounted unit you must first detach base as shown below, otherwise continue to wall mounting instructions on page 8.

DETACH BASE (If converting from counter unit to wall mounted unit):

Detach EverServ 7000 Panel POS head from base of unit by:

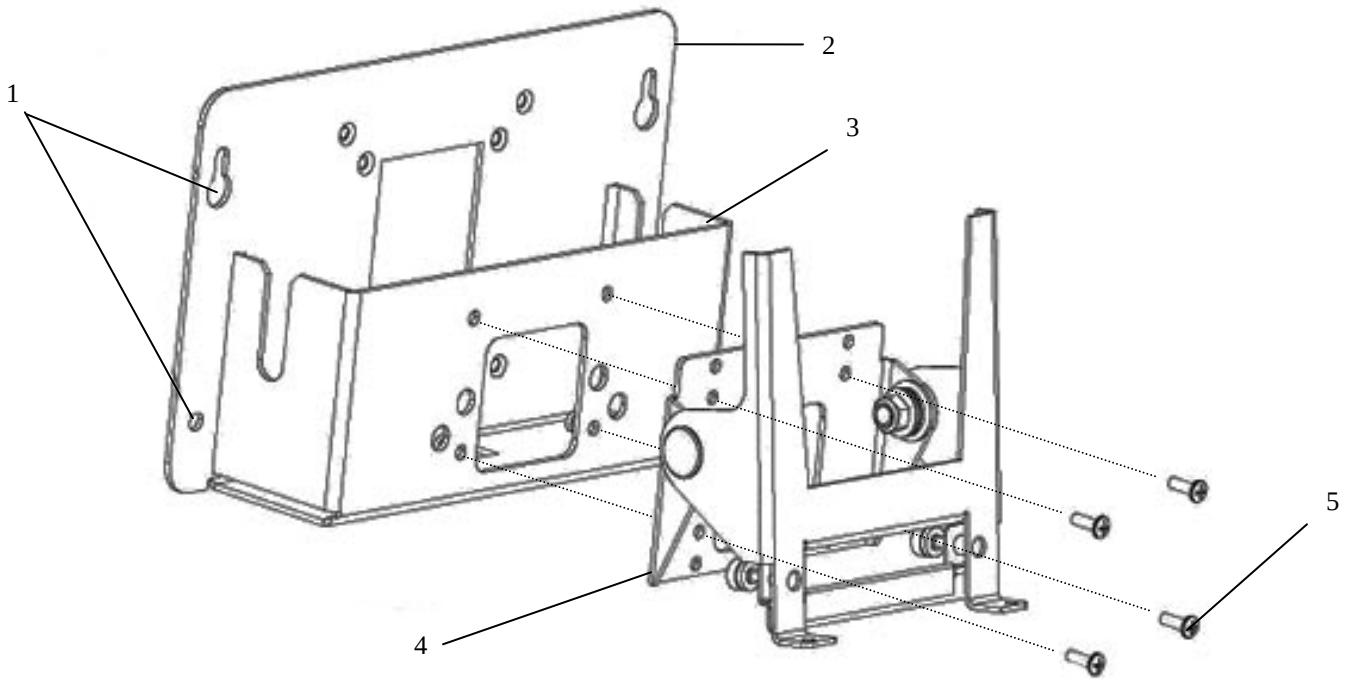
- Laying unit on face, connector well facing you
- Removing two screws where head of unit attaches to base as shown below



WALL MOUNT

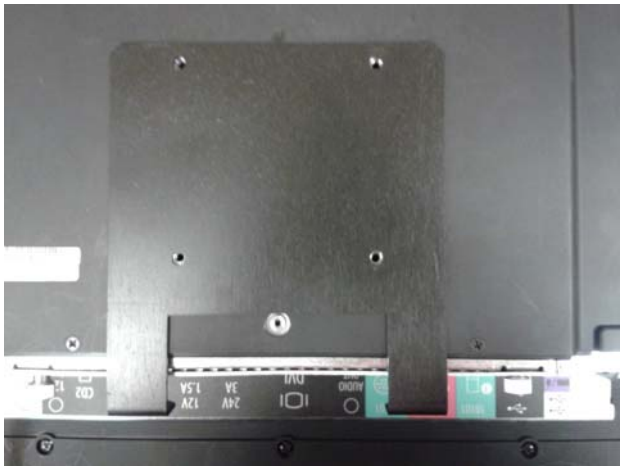
To mount EverServ 7000 Panel POS unit to the wall, connect assembly hinge to bracket wall mount using 8-32 screws. Mount bracket wall mount assembly to wall in 4 locations using hardware provided by installer. Hardware will be determined by installer depending on mounting surface. Place power supply into area shown and dress cables.

Item	Description
1. Wall Bracket Mounting Holes	Holes used for mounting bracket to wall using hardware provided by installer.
2. Bracket Wall Mount	Bracket that connects to the wall.
3. Power Supply Storage Area	Holds power supply brick into place.
4. Assembly POS7 Hinge	Attaches to EverServ 7000 unit.
5. Screw PHP w/Cap 8-32x3/8	Screws to attach bracket wall mount to assembly hinge.

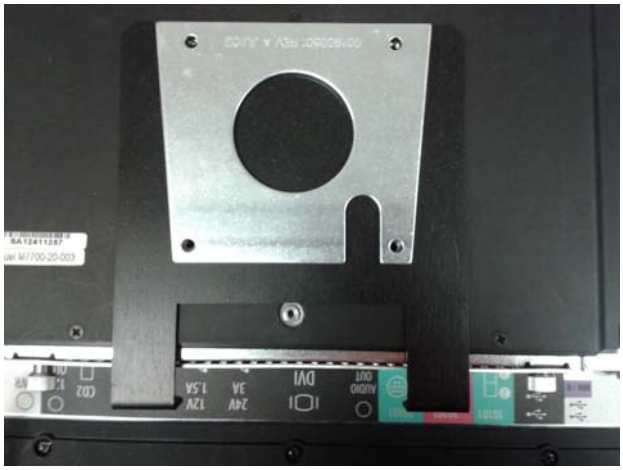


Attaching Mounting Brackets on EverServ 7000 Panel POS

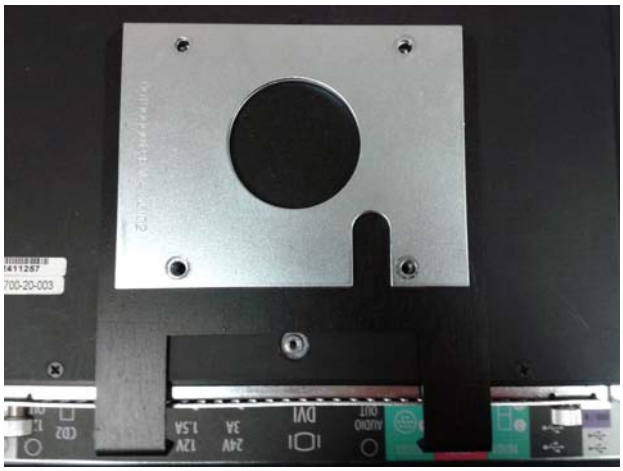
- Lay EverServ 7000 panel POS on its face with bottom facing you
- Place black mounting plate PN001985401 on back of EverServ 7000 panel POS lining up screw holes as shown below



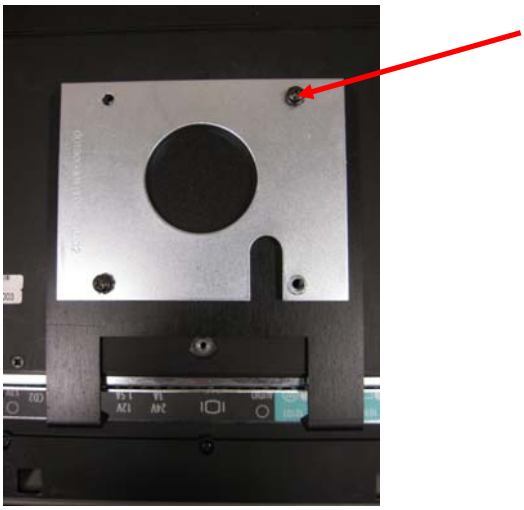
- Place silver mounting plate PN001900501 on top of black mounting plate, lining up screw holes as shown below



- Place silver mounting plate PN001900601 on top of silver mounting plate PN001900501, lining up screw holes as shown below

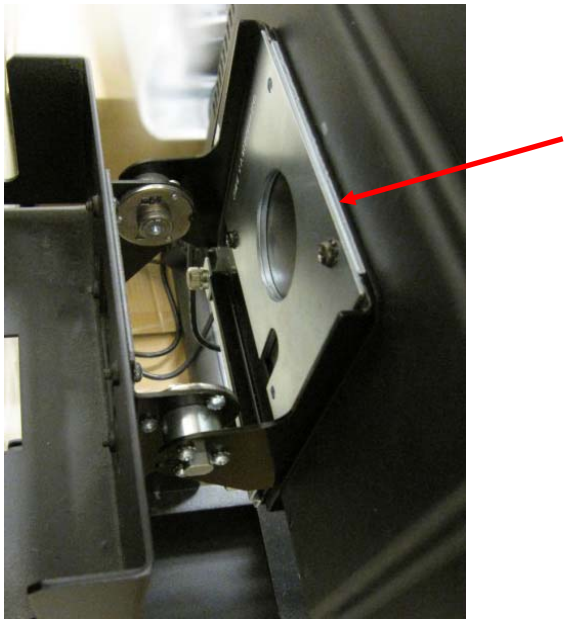


- Insert 4 screws into screw holes to secure three mounting plates to back of EverServ 7000 panel POS

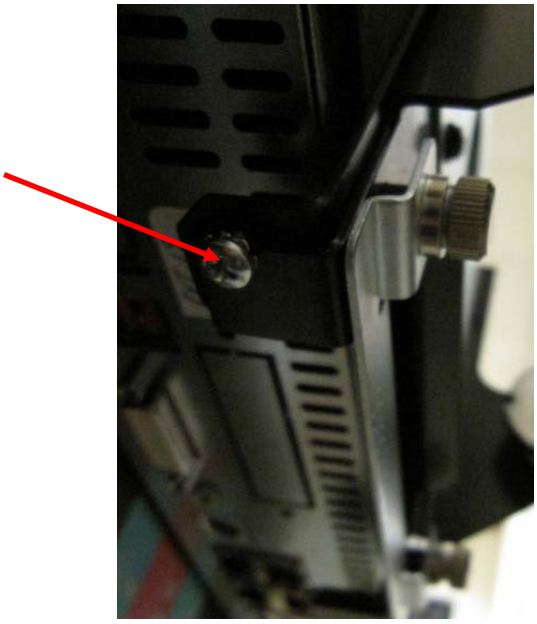


Attaching EverServ 7000 Panel POS to Wall Mount

- Attach EverServ 7000 panel POS to wall mount by sliding panel POS into wall mount bracket as shown below



- Secure EverServ 7000 panel POS to wall mount using (2) screws PN 848004206



BIOS

Introduction

This user manual describes the **AMI** BIOS setup program and configuration options of the EverServ motherboard. The BIOS setup program allows users to modify the basic system configuration of the EverServ motherboard.

Starting Setup

The AMI BIOS is activated when the computer is turned on. The setup program can be activated in one of two ways.

1. Press the **DELETE** key as soon as the system is turned on or
2. Press the **DELETE** key when the "**Press Del to enter SETUP**" message appears on the screen.

If the message disappears before the **DELETE** key is pressed, restart the computer and try again.

Using Setup

Use the arrow keys to highlight items, press **ENTER** to select, use the PageUp and PageDown keys to change entries, press **F1** for help and press **ESC** to quit. Navigation keys are shown in.

Key	Function
Up arrow	Move to previous item
Down arrow	Move to next item
Left arrow	Move to the item on the left hand side
Right arrow	Move to the item on the right hand side
Esc key	Main Menu – Quit and not save changes Status Page Setup Menu and Option Page Setup Menu -- Exit current page and return to Main Menu
Page Up key	Increase the numeric value or make changes
Page Dn key	Decrease the numeric value or make changes
F1 key	General help, only for Status Page Setup Menu and Option Page Setup Menu
F10 key	Save all changes, only for Main Menu

Getting Help

When **F1** is pressed a small help window describing the appropriate keys to use and the possible selections for the highlighted item appears. To exit the Help Window press **ESC** or the **F1** key again.

BIOS Menu Bar

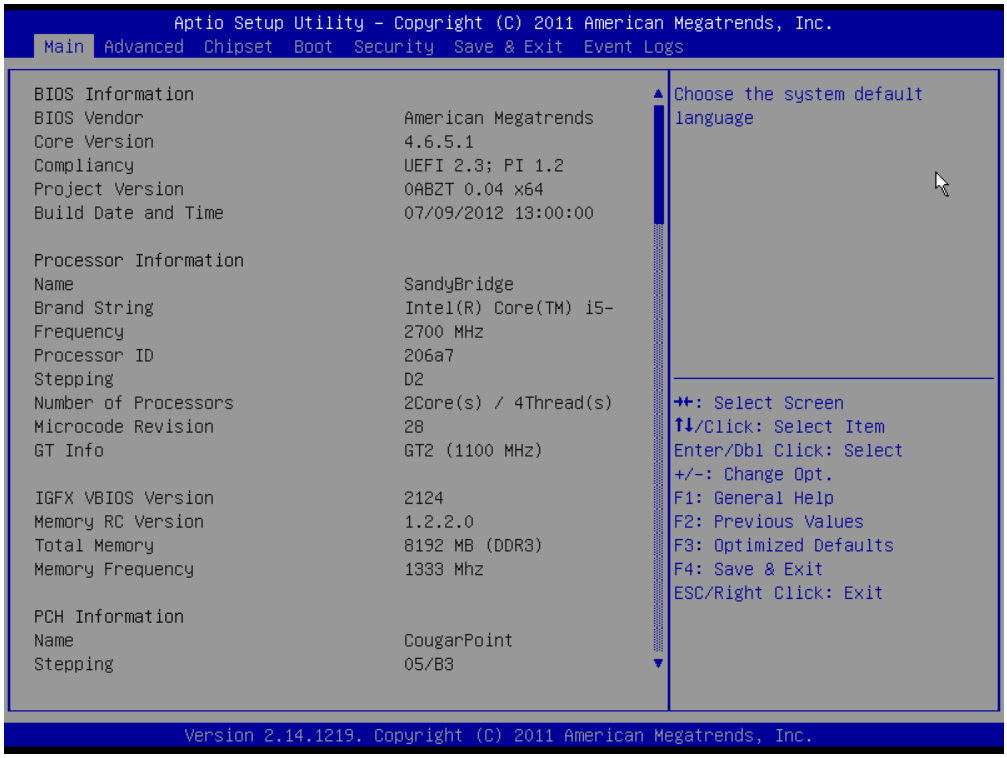
The **menu bar** on top of the BIOS screen has the following main items:

- Main **Changes the basic system configuration.**
- Advanced **Changes the advanced system settings.**
- Chipset **Changes the chipset settings.**
- Boot **Changes the system boot configuration.**
- Security **Changes the security settings.**
- Save & Exit **Selects exit options and loads default settings.**
- Event Logs **Changes the event log settings.**

The following sections completely describe the configuration options found in the menu items at the top of the BIOS screen and listed above.

Main

The **Main** BIOS menu appears when the **BIOS Setup** program is entered. The **Main** menu gives an overview of the basic system information.


Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc.
Main Advanced Chipset Boot Security Save & Exit Event Logs
BIOS Information
BIOS Vendor American Megatrends
Core Version 4.6.5.1
Compliancy UEFI 2.3; PI 1.2
Project Version 0ABZT 0.04 x64
Build Date and Time 07/09/2012 13:00:00
Processor Information
Name SandyBridge
Brand String Intel(R) Core(TM) i5-
Frequency 2700 MHz
Processor ID 206a7
Stepping D2
Number of Processors 2Core(s) / 4Thread(s)
Microcode Revision 28
GT Info GT2 (1100 MHz)
IGFX VBIOS Version 2124
Memory RC Version 1.2.2.0
Total Memory 8192 MB (DDR3)
Memory Frequency 1333 Mhz
PCH Information
Name CougarPoint
Stepping 05/B3
Choose the system default language
→←: Select Screen
↑↓/Click: Select Item
Enter/Dbl Click: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC/Right Click: Exit
Version 2.14.1219. Copyright (C) 2011 American Megatrends, Inc.
BIOS Menu 1: Main

➔ System Information

The **System Information** lists a brief summary of different system components. The fields in **System Information** cannot be changed. The items shown in the system overview include:

- AMI BIOS**: Displays auto-detected BIOS information**
  - **Version**: Current BIOS version
  - **Build Date**: Date the current BIOS version was made
- Processor**: Displays auto-detected CPU specifications**
  - **Speed**: Lists the processor speed
- System Memory**: Displays the auto-detected system memory.**
  - **Size**: Lists memory size

The **System Overview** field also has two user configurable fields:

➔ System Time [xx:xx:xx]

Use the **System Time** option to set the system time. Manually enter the hours, minutes and seconds.

➔ System Date [xx/xx/xx]

Use the **System Date** option to set the system date. Manually enter the day, month and year.

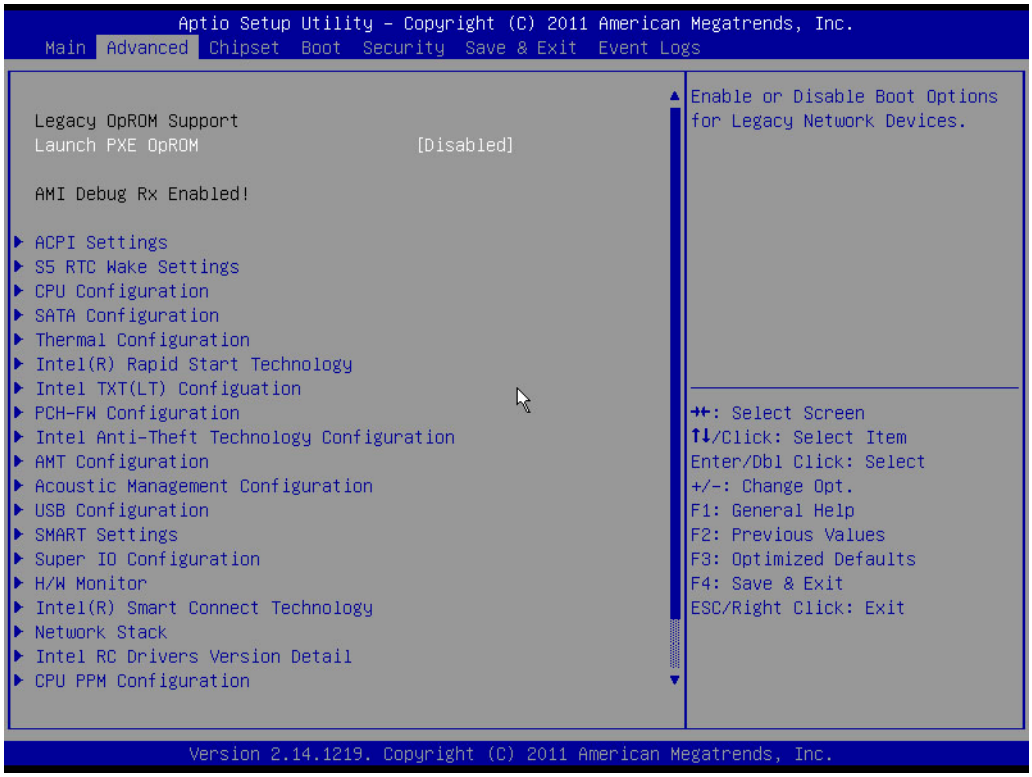
Advanced

Use the **Advanced** menu to configure the CPU and peripheral devices through the following sub-menus:

WARNING:

Setting the wrong values in the sections below may cause the system to malfunction. Make sure that the settings made are compatible with the hardware.

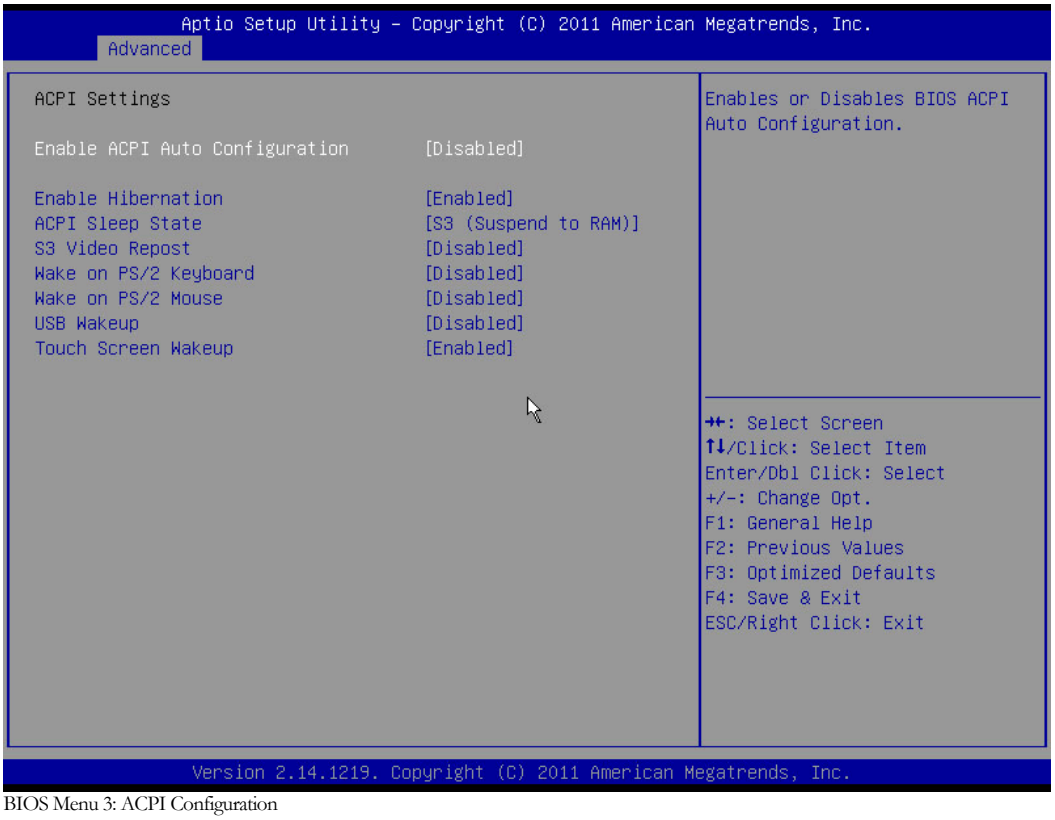
- **ACPI Settings**
- **S5 RTC Wake Settings**
- **CPU Configuration**
- **SATA Configuration**
- **Thermal Configuration**
- **Intel ® Rapid Start Technology**
- **Intel TXT (LT) Configuration**
- **PCH-FW Configuration**
- **Intel Anti-Theft Technology Configuration**
- **AMT Configuration**
- **Acoustic Management Configuration**
- **USB Configuration**
- **SMART Settings**
- **Super IO Configuration**
- **H/W Monitor**
- **Intel ® Smart Connect Technology**
- **Network Stack**
- **Intel RC Drivers Version Detail**
- **CPU PPM Configuration**
- **Switchable Graphics**



BIOS Menu 2: Advanced

ACPI Configuration

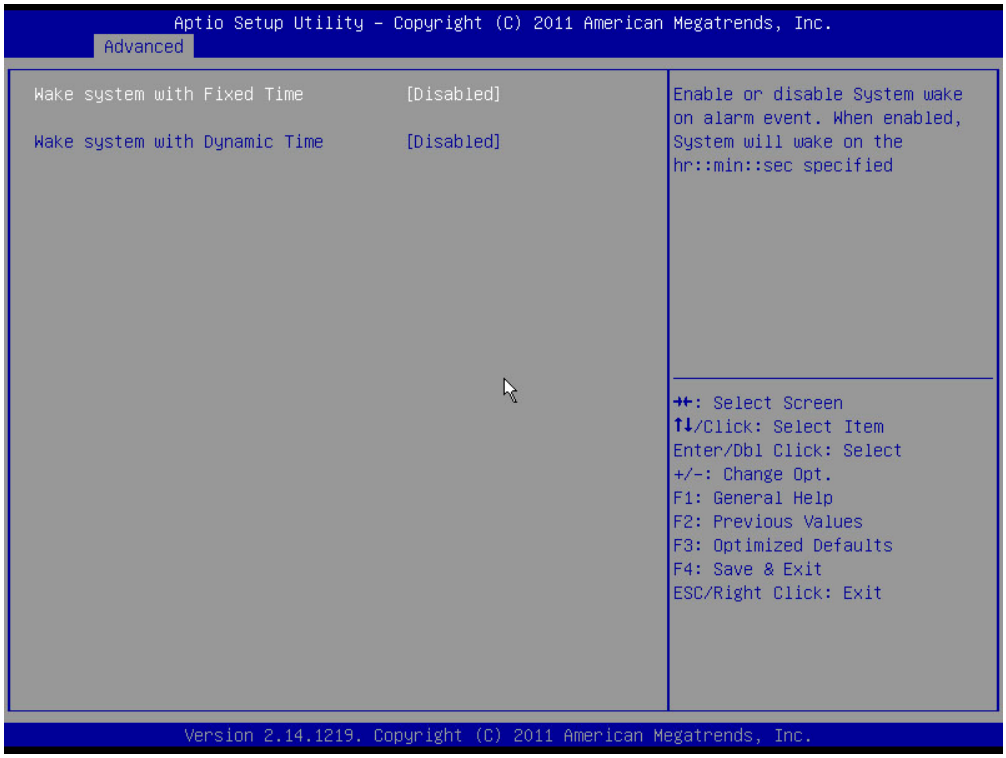
The **ACPI Configuration** menu configures the Advanced Configuration and Power Interface (ACPI) and Power Management (APM) options.


Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc.
Advanced
ACPI Settings
Enable ACPI Auto Configuration [Disabled]
Enable Hibernation [Enabled]
ACPI Sleep State [S3 (Suspend to RAM)]
S3 Video Repost [Disabled]
Wake on PS/2 Keyboard [Disabled]
Wake on PS/2 Mouse [Disabled]
USB Wakeup [Disabled]
Touch Screen Wakeup [Enabled]
Enables or Disables BIOS ACPI Auto Configuration.
→←: Select Screen
↑↓/Click: Select Item
Enter/Dbl Click: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC/Right Click: Exit
Version 2.14.1219. Copyright (C) 2011 American Megatrends, Inc.
BIOS Menu 3: ACPI Configuration

- ➔ **Enable ACPI Auto Configuration**
- ➔ **Enable Hibernation**
- ➔ **ACPI Sleep State**
- ➔ **S3 Video Repost**
- ➔ **Wake on PS/2 Keyboard**
- ➔ **Wake on PS/2 Mouse**
- ➔ **USB Wakeup**
- ➔ **Touch Screen Wakeup**

S5 RTC Wake Settings

Use the **S5 RTC Wake Settings** menu to enable or disable System wake on alarm event.


Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc.
Advanced
Wake system with Fixed Time [Disabled]
Wake system with Dynamic Time [Disabled]
Enable or disable System wake on alarm event. When enabled, System will wake on the hr::min::sec specified
→←: Select Screen
↑↓/Click: Select Item
Enter/Dbl Click: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC/Right Click: Exit
Version 2.14.1219. Copyright (C) 2011 American Megatrends, Inc.

➔ **Wake System with Fixed Time [Disabled]**

Use the **Wake System with Fixed Time** to enable or disable System wake on alarm event.

➔ Disabled Default Disables System wake on alarm event.

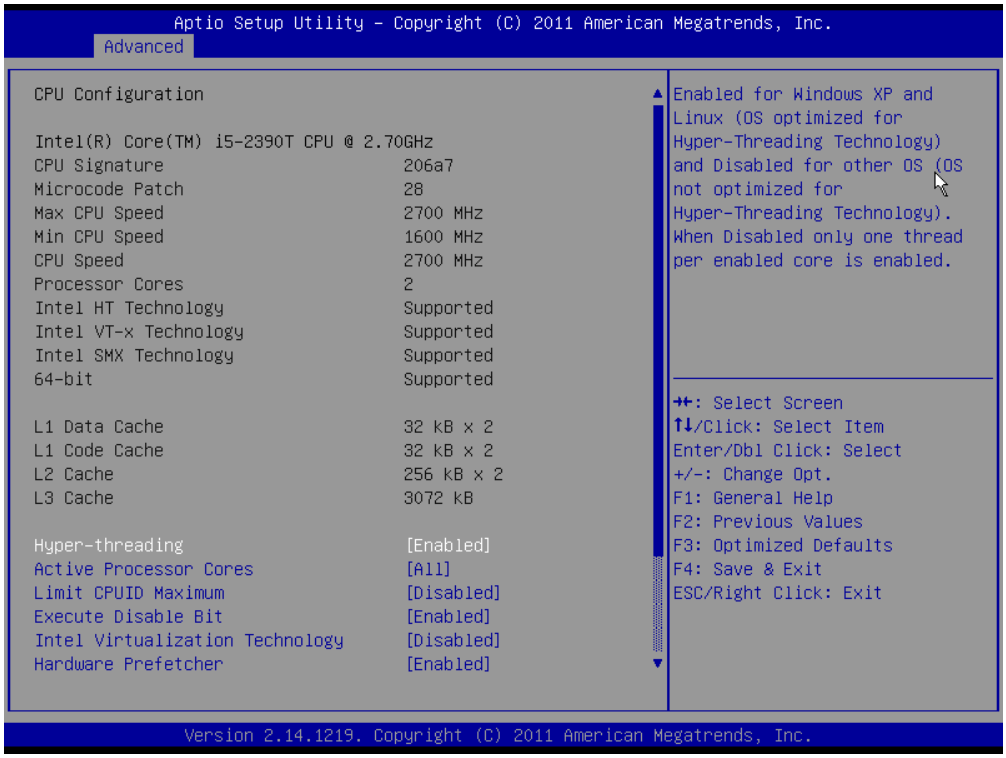
➔ **Wake System with Dynamic Time [Disabled]**

Use the **Wake System with Dynamic Time** to enable or disable wake on current time and increase minutes.

➔ Disabled Default Disables System

CPU Configuration

Use the **CPU Configuration** menu to view detailed CPU specifications and configure the CPU.


Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc.
Advanced
CPU Configuration
Intel(R) Core(TM) i5-2390T CPU @ 2.70GHz
CPU Signature 206a7
Microcode Patch 28
Max CPU Speed 2700 MHz
Min CPU Speed 1600 MHz
CPU Speed 2700 MHz
Processor Cores 2
Intel HT Technology Supported
Intel VT-x Technology Supported
Intel SMX Technology Supported
64-bit Supported
L1 Data Cache 32 kB x 2
L1 Code Cache 32 kB x 2
L2 Cache 256 kB x 2
L3 Cache 3072 kB
Hyper-threading [Enabled]
Active Processor Cores [All]
Limit CPUID Maximum [Disabled]
Execute Disable Bit [Enabled]
Intel Virtualization Technology [Disabled]
Hardware Prefetcher [Enabled]
Enabled for Windows XP and Linux (OS optimized for Hyper-Threading Technology) and Disabled for other OS (OS not optimized for Hyper-Threading Technology). When Disabled only one thread per enabled core is enabled.
→←: Select Screen
↑↓/Click: Select Item
Enter/Dbl Click: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC/Right Click: Exit
Version 2.14.1219. Copyright (C) 2011 American Megatrends, Inc.
BIOS Menu 4: CPU Configuration

The CPU Configuration menu (BIOS Menu 4) lists the following CPU details:

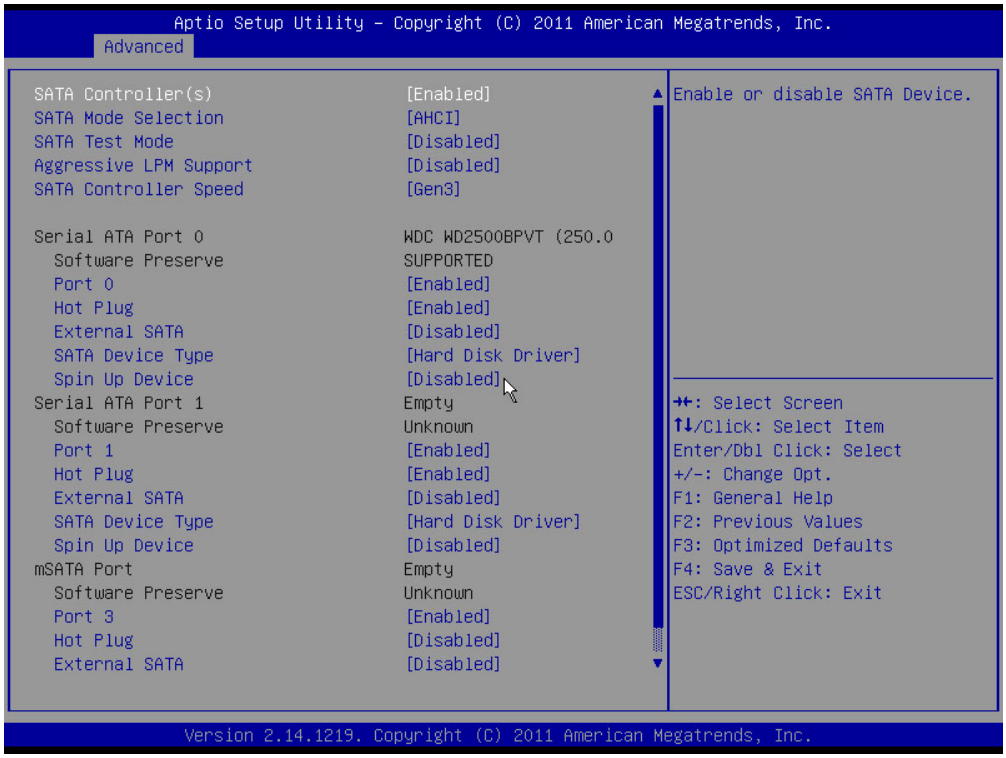
- Manufacturer**: Lists the name of the CPU manufacturer**
- Brand String**: Lists the brand name of the CPU being used**
- Frequency: **Lists the CPU processing speed**
- FSB Speed**: Lists the FSB speed**
- Cache L1**: Lists the CPU L1 cache size**
- Cache L2**: Lists the CPU L2 cache size**

The following **CPU Configuration** menu item can be configured.

- **Hyper-threading**
- **Active Processor Cores**
- **Limit CPUID Maximum**
- **Execute Disable Bit**
- **Intel Virtualization Technology**
- **Hardware Prefetcher**
- **Adjacent Cache Line Prefetch**
- **TCC Activation Offset**
- **Primary Plane Current Value**
- **Secondary Plane Current Value**

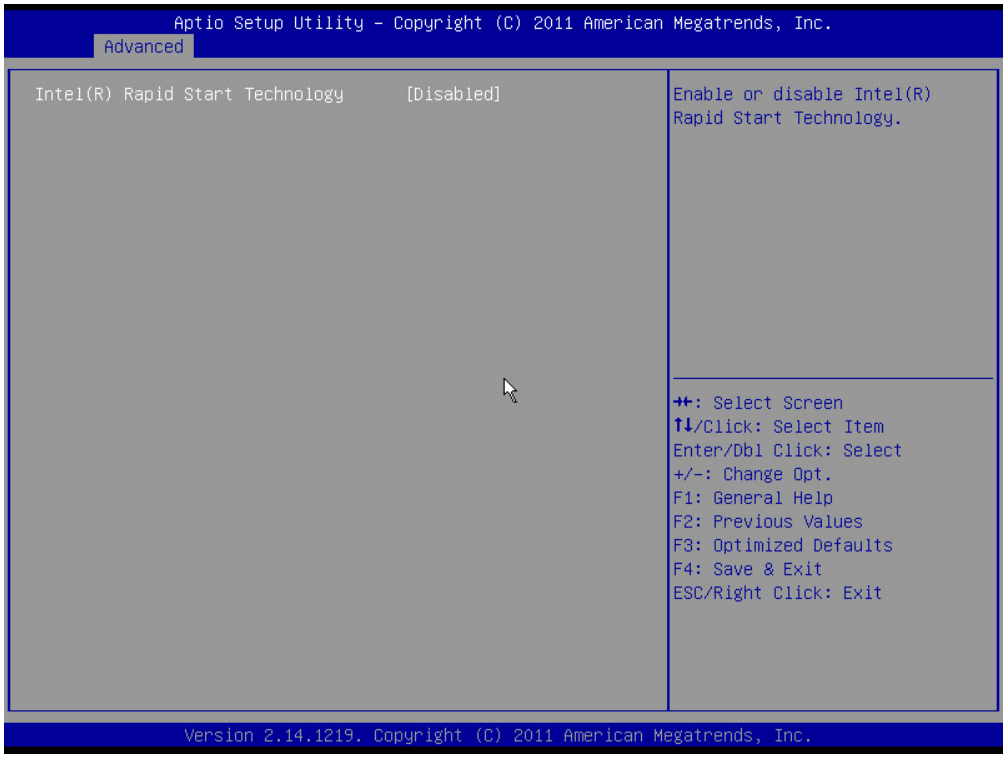
SATA Configuration

Use the **SATA Configuration** menu to view detailed SATA specifications.



Intel ® Rapid Start Technology

Use the **Intel ® Rapid Start Technology** menu to enable or disable Intel ® Rapid Start Technology.

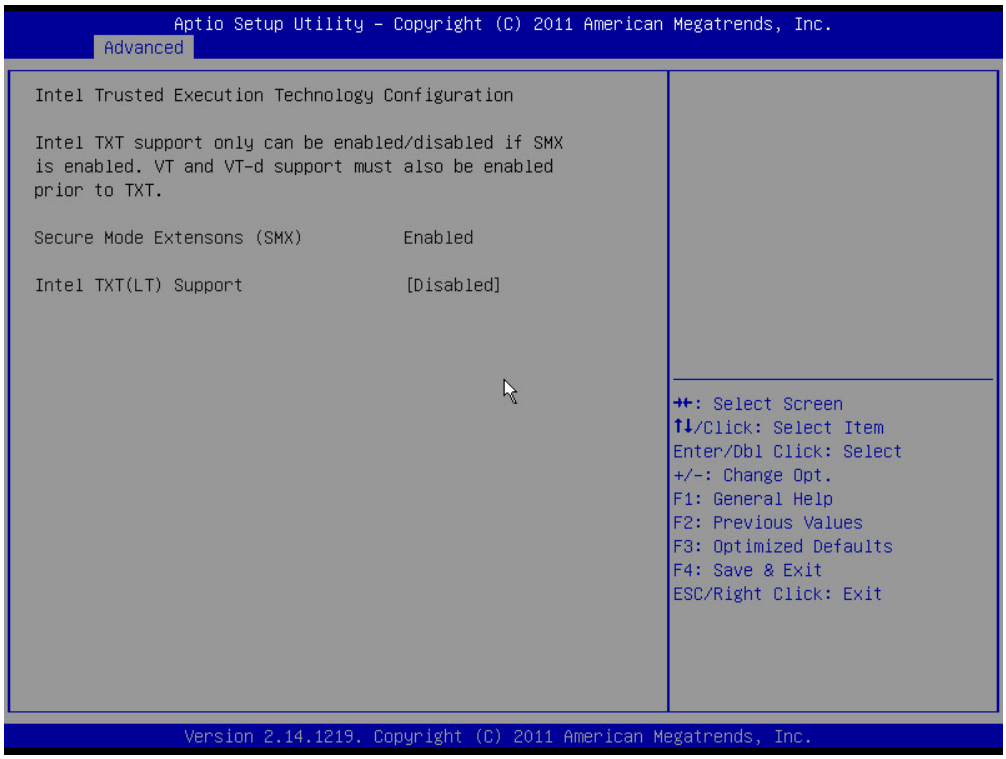

Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc.
Advanced
Intel(R) Rapid Start Technology [Disabled]
Enable or disable Intel(R) Rapid Start Technology.
→←: Select Screen
↑↓/Click: Select Item
Enter/Dbl Click: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC/Right Click: Exit
Version 2.14.1219. Copyright (C) 2011 American Megatrends, Inc.

➔ **Intel (R) Rapid Start Technology [Disabled]**

Use the **Intel (R) Rapid Start Technology** to enable or disable Intel ® Rapid Start Technology.

➔ Disabled Default Rapid Start Technology is set to disabled.

Intel TXT (LT) Configuration


Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc.
Advanced
Intel Trusted Execution Technology Configuration
Intel TXT support only can be enabled/disabled if SMX is enabled. VT and VT-d support must also be enabled prior to TXT.
Secure Mode Extensons (SMX) Enabled
Intel TXT(LT) Support [Disabled]
→←: Select Screen
↑↓/Click: Select Item
Enter/Dbl Click: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC/Right Click: Exit
Version 2.14.1219. Copyright (C) 2011 American Megatrends, Inc.

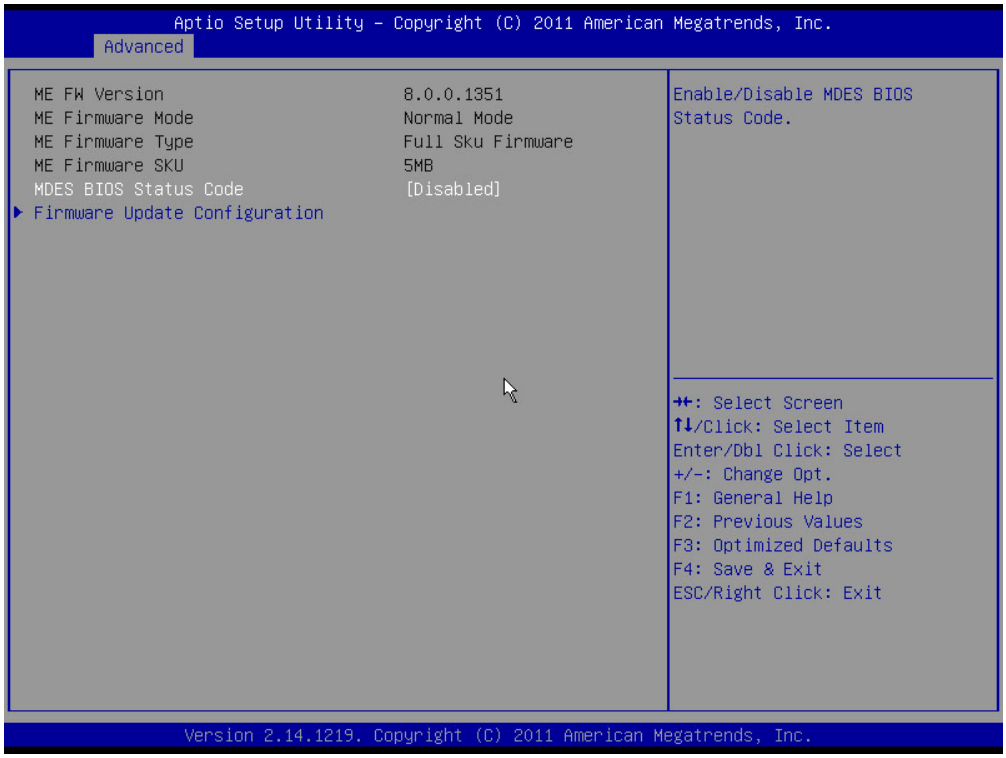
➔ **Secure Mode Extensions (SMX)**

Use the **Secure Mode Extensions (SMX)** to enable or disable secure mode extensions.

➔ Enabled Default SMX is enabled.

PCH-FW Configuration

Use the **PCH-FW Configuration** menu to enable or disable MDES BIOS Status Code.


Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc.
Advanced
ME FW Version 8.0.0.1351
ME Firmware Mode Normal Mode
ME Firmware Type Full Sku Firmware
ME Firmware SKU 5MB
MDES BIOS Status Code [Disabled]
Firmware Update Configuration
Enable/Disable MDES BIOS Status Code.
→←: Select Screen
↑↓/Click: Select Item
Enter/Dbl Click: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC/Right Click: Exit
Version 2.14.1219. Copyright (C) 2011 American Megatrends, Inc.

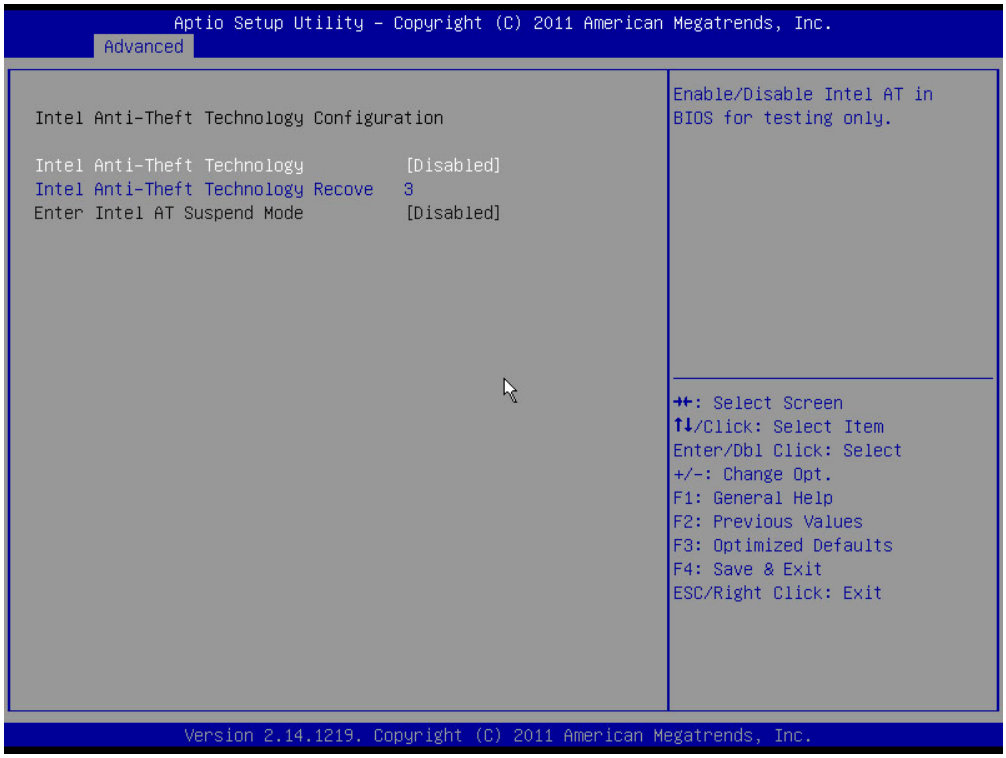
➔ MDES BIOS Status Code [Disabled]

Use the **MDES BIOS Status Code** to enable or disable MDES BIOS Status Code.

➔ Disabled	Default	MDES BIOS Status Code is disabled
➔ Enabled		MDES BIOS Status Code enabled

Intel Anti-Theft Technology Configuration

Use the **Intel Anti-Theft Technology Configuration** menu to enable or disable anti theft in BIOS.


Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc.
Advanced
Intel Anti-Theft Technology Configuration
Intel Anti-Theft Technology [Disabled]
Intel Anti-Theft Technology Recove 3
Enter Intel AT Suspend Mode [Disabled]
Enable/Disable Intel AT in BIOS for testing only.
→←: Select Screen
↑↓/Click: Select Item
Enter/Dbl Click: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC/Right Click: Exit
Version 2.14.1219. Copyright (C) 2011 American Megatrends, Inc.

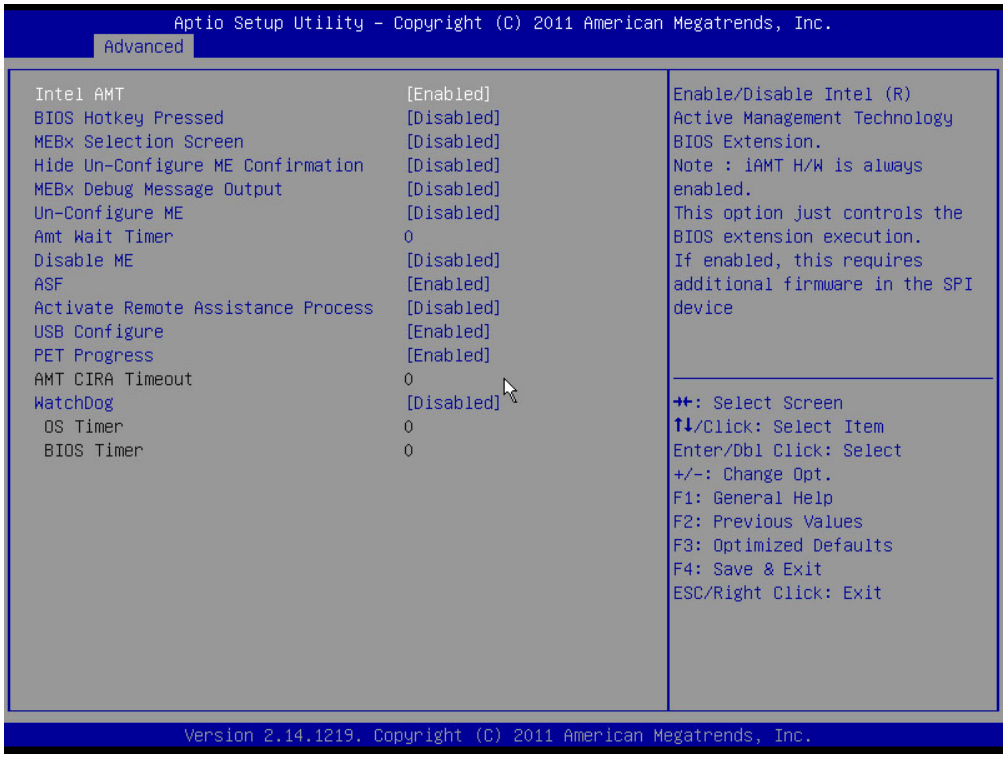
➔ Intel Anti-Theft Technology

Use the **Intel Anti-Theft Technology** to enable or disable anti-theft.

➔ Disabled Default Anti-Theft is disabled.

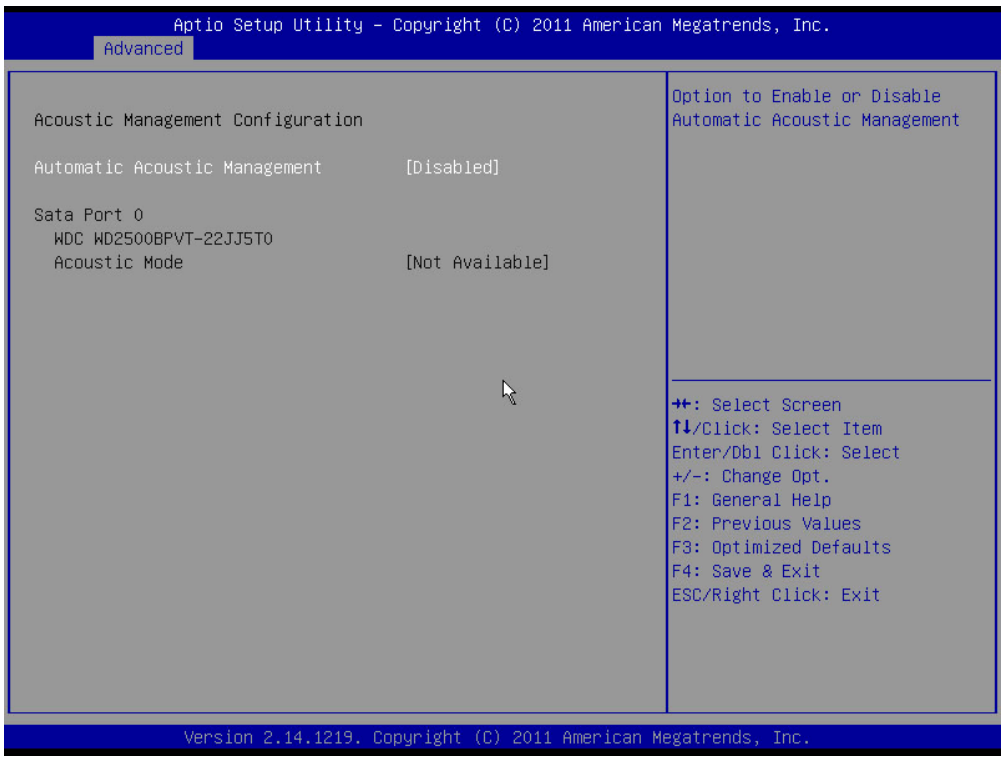
AMT Configuration

Use the **AMT Configuration** menu to enable or disable Active Management Technology BIOS Extension.


Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc.
Advanced
Intel AMT [Enabled]
BIOS Hotkey Pressed [Disabled]
MEBx Selection Screen [Disabled]
Hide Un-Configure ME Confirmation [Disabled]
MEBx Debug Message Output [Disabled]
Un-Configure ME [Disabled]
Amt Wait Timer 0
Disable ME [Disabled]
ASF [Enabled]
Activate Remote Assistance Process [Disabled]
USB Configure [Enabled]
PET Progress [Enabled]
AMT CIRA Timeout 0
WatchDog [Disabled]
OS Timer 0
BIOS Timer 0
Enable/Disable Intel (R) Active Management Technology BIOS Extension.
Note : iAMT H/W is always enabled.
This option just controls the BIOS extension execution.
If enabled, this requires additional firmware in the SPI device
→←: Select Screen
↑↓/Click: Select Item
Enter/Dbl Click: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC/Right Click: Exit
Version 2.14.1219. Copyright (C) 2011 American Megatrends, Inc.

Acoustic Management Configuration

Use the **Acoustic Management Configuration** menu to enable or disable Automatic Acoustic Management.



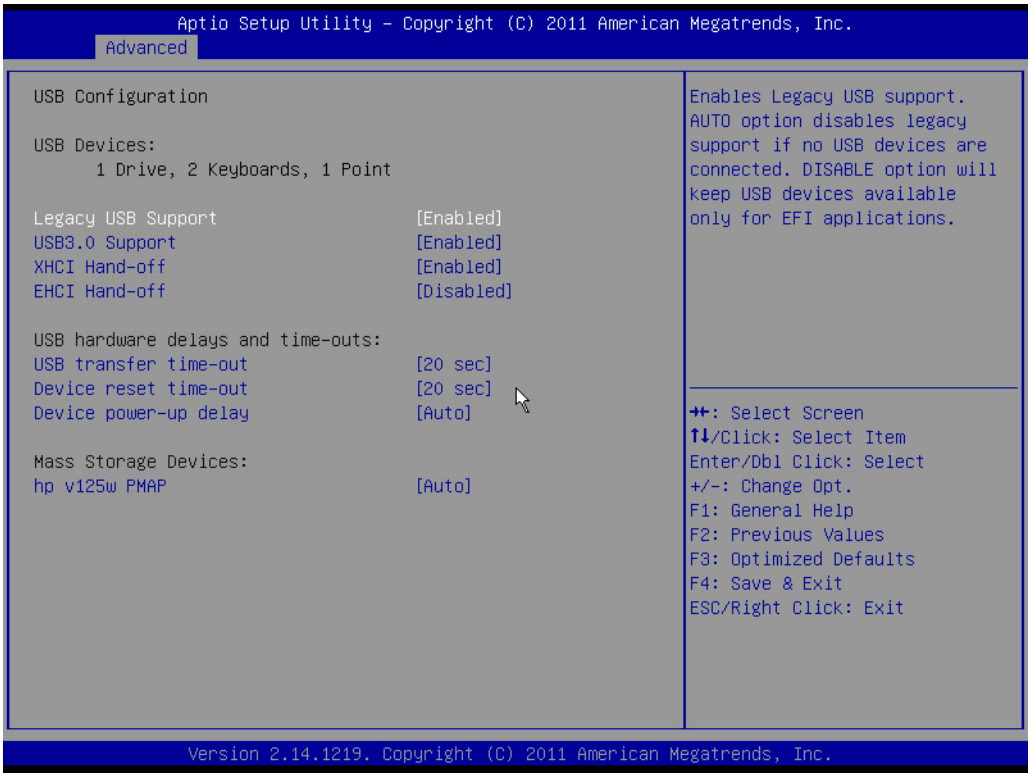
➔ **Automatic Acoustic Management**

Use the **Automatic Acoustic Management** to enable or disable Automatic Acoustic Management.

➔ Disabled Default Automatic Acoustic Management is disabled.

USB Configuration

Use the **USB Configuration** menu to read USB configuration information and configure the USB settings.


Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc.
Advanced
USB Configuration
USB Devices:
1 Drive, 2 Keyboards, 1 Point
Legacy USB Support [Enabled]
USB3.0 Support [Enabled]
XHCI Hand-off [Enabled]
EHCI Hand-off [Disabled]
USB hardware delays and time-outs:
USB transfer time-out [20 sec]
Device reset time-out [20 sec]
Device power-up delay [Auto]
Mass Storage Devices:
hp v125w PMAP [Auto]
Enables Legacy USB support. AUTO option disables legacy support if no USB devices are connected. DISABLE option will keep USB devices available only for EFI applications.
→←: Select Screen
↑↓/Click: Select Item
Enter/Dbl Click: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC/Right Click: Exit
Version 2.14.1219. Copyright (C) 2011 American Megatrends, Inc.
BIOS Menu 5: USB Configuration

➔ **USB Configuration**

➔ **USB Devices Enabled**

The **USB Devices Enabled** field lists the USB devices that are enabled on the system.

➔ **USB Function [4 USB Ports]**

Use the **USB Function** BIOS option to enable or disable a specified number of USB ports. If only two USB ports are being used, disabling the remaining six USB frees up system resources that can be redirected elsewhere.

➔ **Legacy USB Support [Enabled]**

The **Legacy USB Support** BIOS option refers to USB mouse and USB keyboard support. Normally if this option is not enabled, any attached USB mouse or USB keyboard does not become available until a USB compatible operating system is fully booted with all USB drivers loaded. When this option is enabled, any attached USB mouse or USB keyboard can control the system even when there is no USB driver loaded on the system.

➔ Disabled Legacy USB support disabled

➔ Enabled Default Legacy USB support enabled

➔ **USB 3.0 Support [Enabled]**

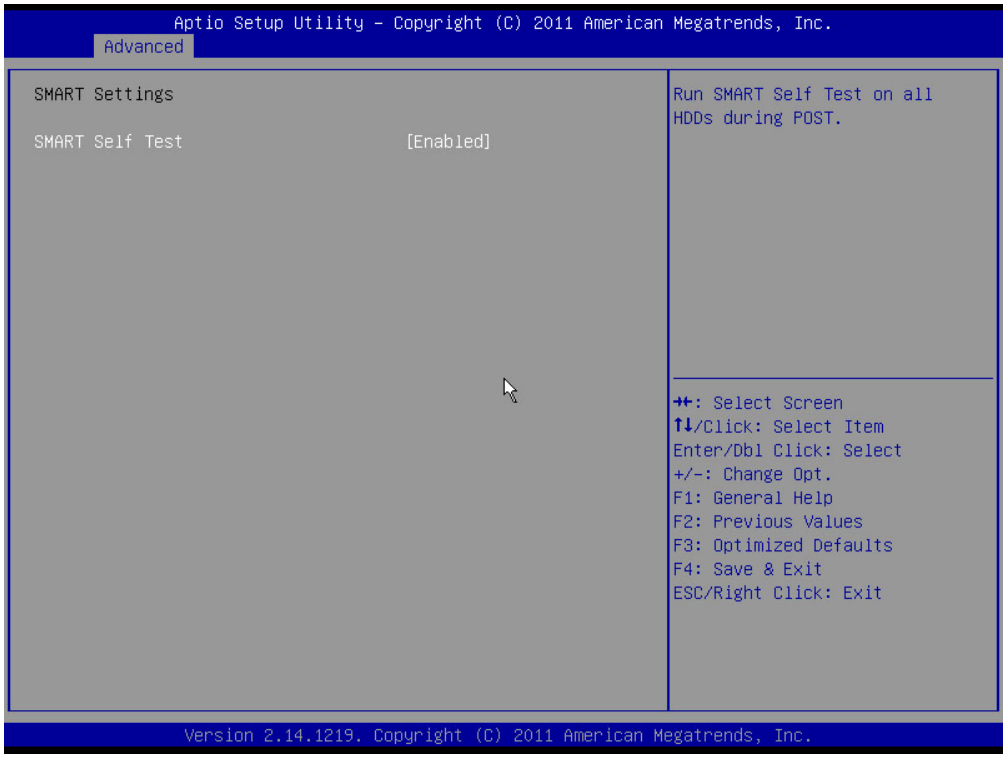
Use the **USB 3.0 Controller** BIOS option to enable or disable the USB 3.0 controller

➔ Disabled USB 3.0 controller disabled

➔ Enabled Default USB 3.0 controller enabled

SMART Settings

Use the **SMART Settings** menu to enable or disable SMART Self Test.


Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc.
Advanced
SMART Settings
SMART Self Test [Enabled]
Run SMART Self Test on all HDDs during POST.
→←: Select Screen
↑↓/Click: Select Item
Enter/Dbl Click: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC/Right Click: Exit
Version 2.14.1219. Copyright (C) 2011 American Megatrends, Inc.

➔ **SMART Self Test [Enabled]**

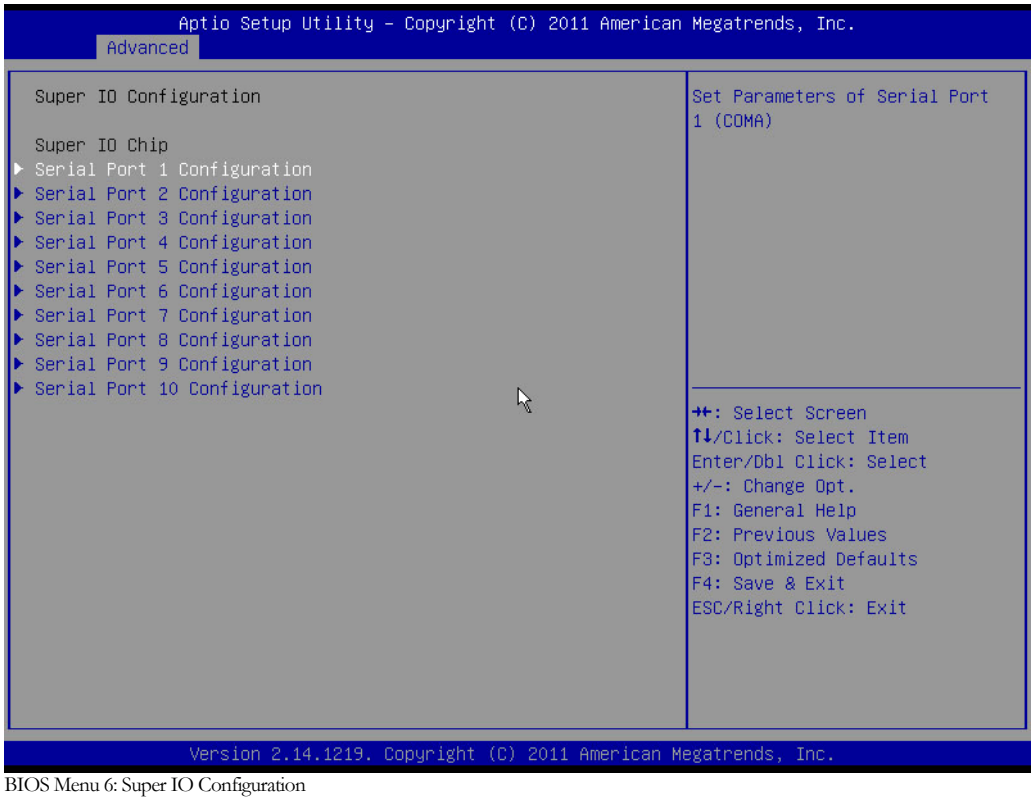
Use the **SMART Self Test** option to enable or disable SMART Self Test.

➔ Disabled Self Test disabled

➔ Enabled Default Self Test enabled

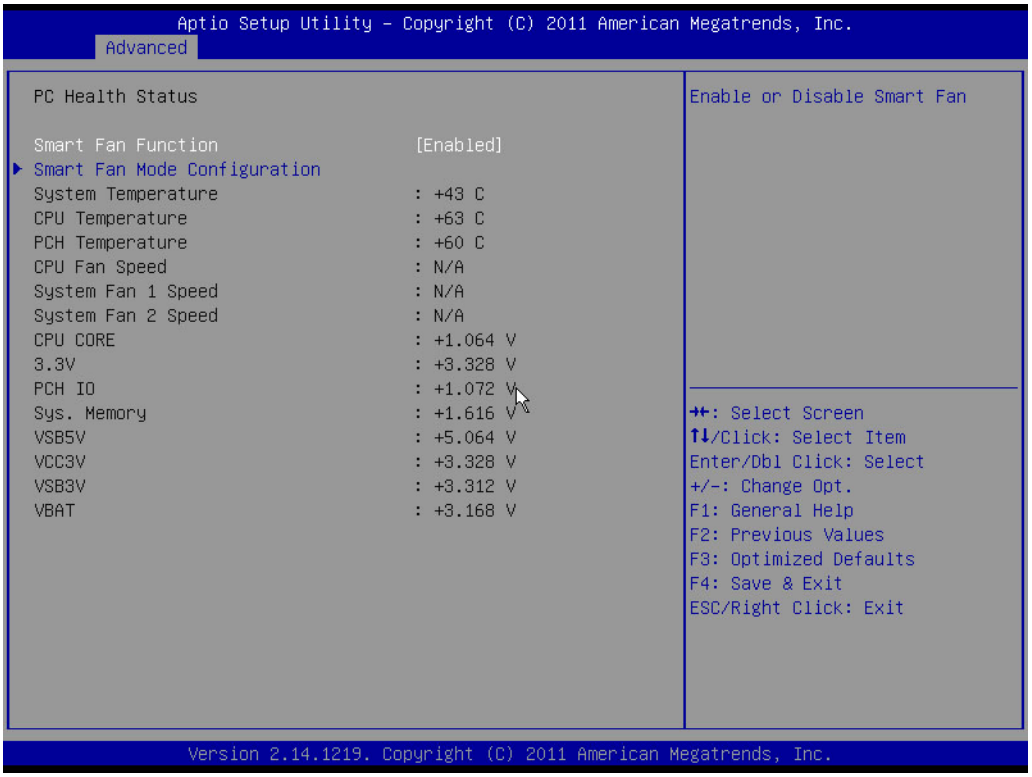
Super IO Configuration

Use the **Super IO Configuration** menu to set or change the configurations for the FDD controllers, parallel ports and serial ports.


Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc.
Advanced
Super IO Configuration
Super IO Chip
Serial Port 1 Configuration
Serial Port 2 Configuration
Serial Port 3 Configuration
Serial Port 4 Configuration
Serial Port 5 Configuration
Serial Port 6 Configuration
Serial Port 7 Configuration
Serial Port 8 Configuration
Serial Port 9 Configuration
Serial Port 10 Configuration
Set Parameters of Serial Port 1 (COMA)
→←: Select Screen
↑↓/Click: Select Item
Enter/Dbl Click: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC/Right Click: Exit
Version 2.14.1219. Copyright (C) 2011 American Megatrends, Inc.
BIOS Menu 6: Super IO Configuration

Hardware Health Configuration

The **Hardware Health Configuration** menu shows the operating temperature, fan speeds and system voltages.

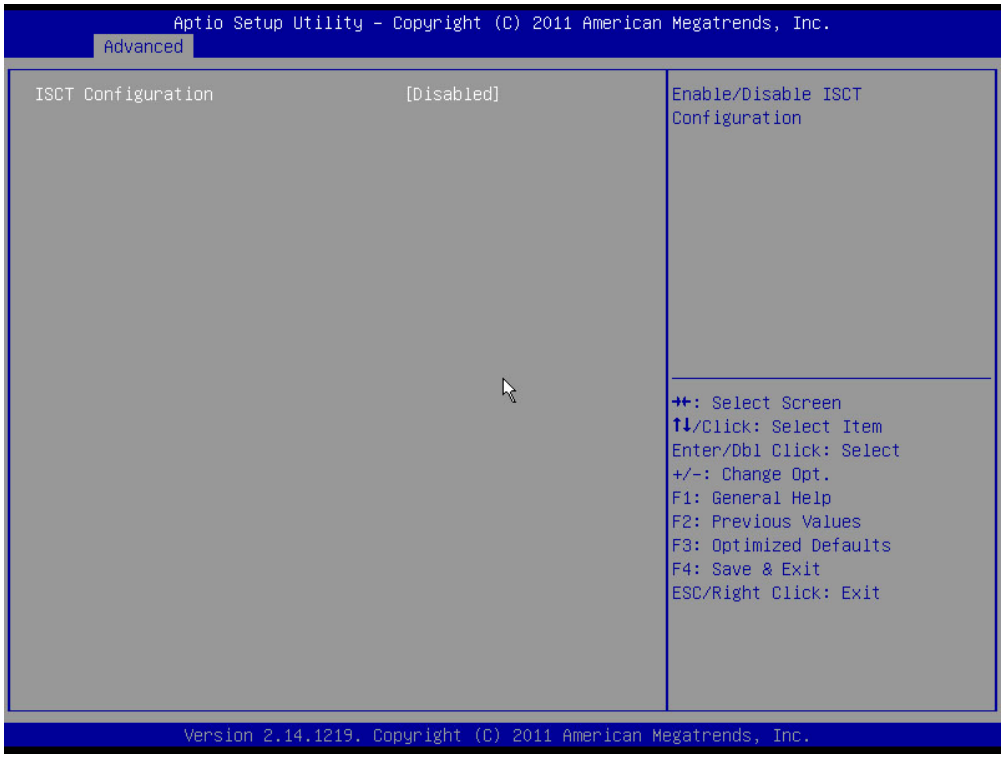

Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc.
Advanced
PC Health Status
Smart Fan Function [Enabled]
Smart Fan Mode Configuration
System Temperature : +43 C
CPU Temperature : +63 C
PCH Temperature : +60 C
CPU Fan Speed : N/A
System Fan 1 Speed : N/A
System Fan 2 Speed : N/A
CPU CORE : +1.064 V
3.3V : +3.328 V
PCH IO : +1.072 V
Sys. Memory : +1.616 V
VSB5V : +5.064 V
VCC3V : +3.328 V
VSB3V : +3.312 V
VBAT : +3.168 V
Enable or Disable Smart Fan
→←: Select Screen
↑↓/Click: Select Item
Enter/Dbl Click: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC/Right Click: Exit
Version 2.14.1219. Copyright (C) 2011 American Megatrends, Inc.
BIOS Menu 7: Hardware Health Configuration

The following system parameters and values are shown. The system parameters that are monitored are:

- System Temperatures**: The following system temperatures are monitored**
  - System Temperature
  - CPU Temperature
  - PCH Temperature
- Fan Speeds**: The CPU cooling fan speed is monitored.**
  - System Fan 1 Speed
  - System Fan 2 Speed
- Voltages: **The following system voltages are monitored**
  - CPU Core
  - +3.30V
  - PCH IO
  - Sys. Memory
  - VSB5V
  - VCC3V
  - VSB3V
  - VBAT

Intel ® Smart Connect Technology

Use the **Intel ® Smart Connect Technology** menu to enable or disable ISCT Configuration.



➔ **ISCT Configuration [Disabled]**

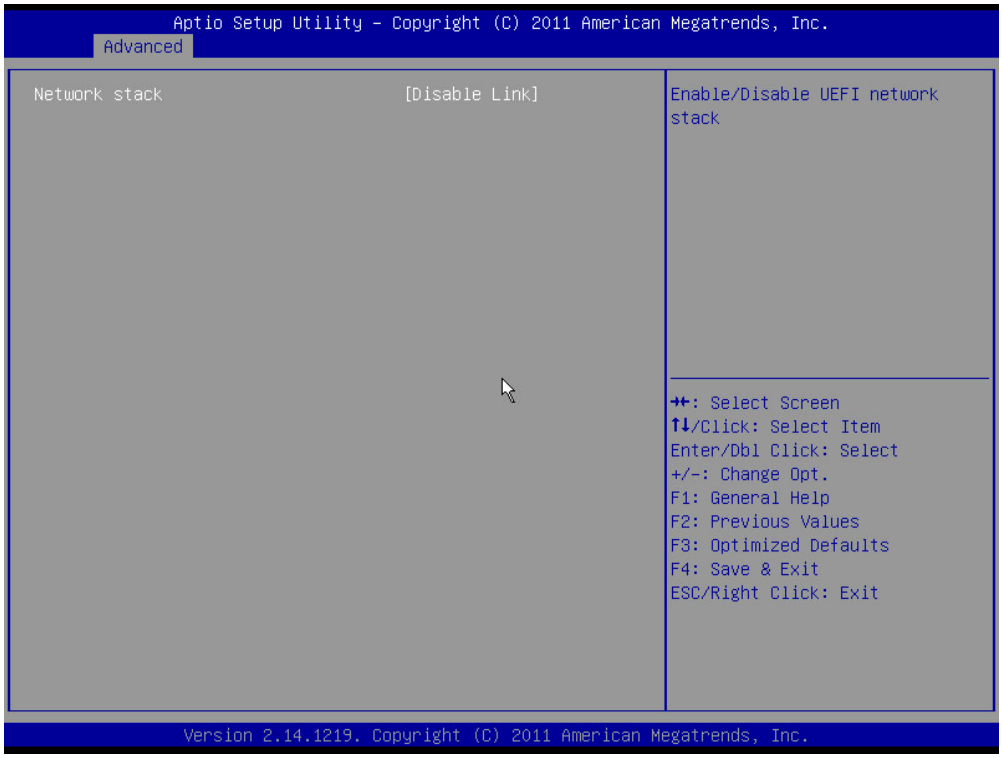
Use the **ISCT Configuration** to enable or disable ISCT Configuration.

➔ Disabled Default ISCT Configuration disabled

➔ Enabled ISCT Configuration enabled

Network Stack

Use the **Network Stack** menu to enable or disable UEFI network stack.



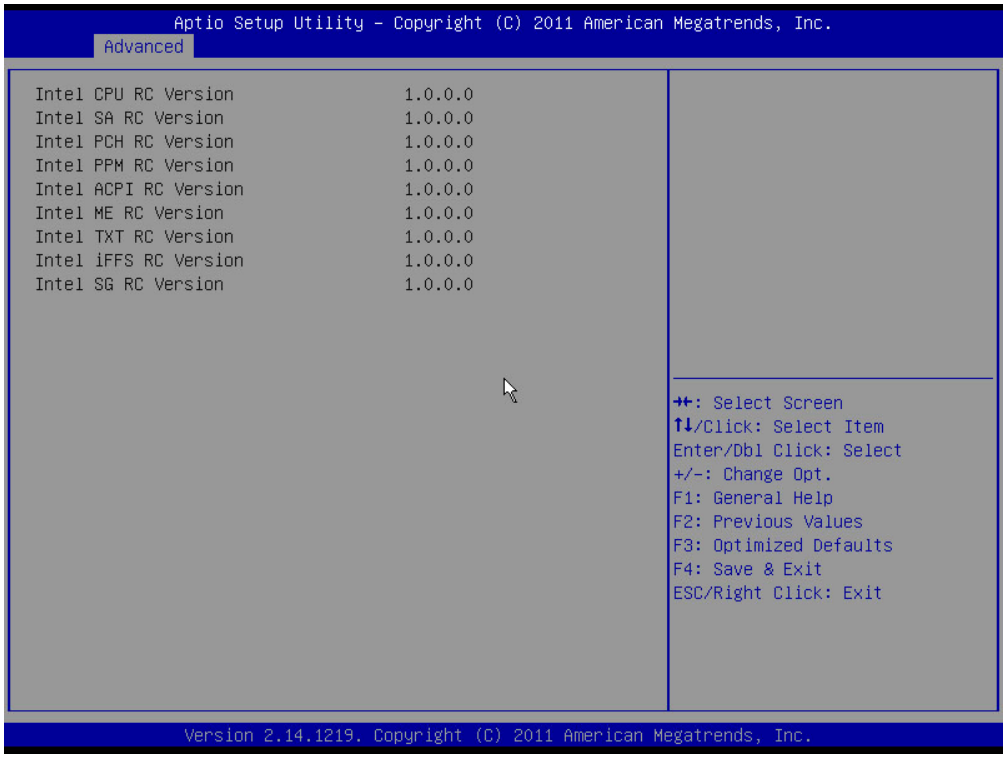
➔ **Network Stack [Disable Link]**

Use the **Network Stack** to enable or disable UEFI network stack.

➔ Disable Link Default Disables UEFI network stack.

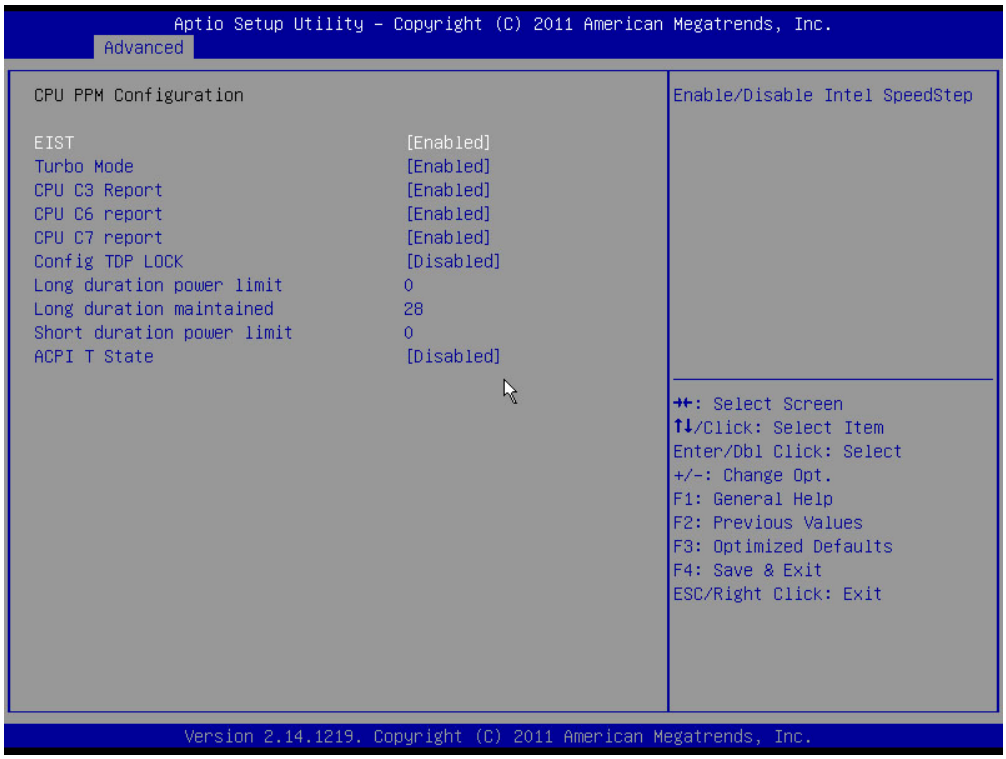
Intel RC Drivers Version Detail

Use the **Intel RC Drivers Version Detail** menu to see version details.


Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc.
Advanced
Intel CPU RC Version 1.0.0.0
Intel SA RC Version 1.0.0.0
Intel PCH RC Version 1.0.0.0
Intel PPM RC Version 1.0.0.0
Intel ACPI RC Version 1.0.0.0
Intel ME RC Version 1.0.0.0
Intel TXT RC Version 1.0.0.0
Intel iFFS RC Version 1.0.0.0
Intel SG RC Version 1.0.0.0
→←: Select Screen
↑↓/Click: Select Item
Enter/Dbl Click: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC/Right Click: Exit
Version 2.14.1219. Copyright (C) 2011 American Megatrends, Inc.

CPU PPM Configuration

Use the **CPU PPM Configuration** menu to enable or disable Intel SpeedStep.

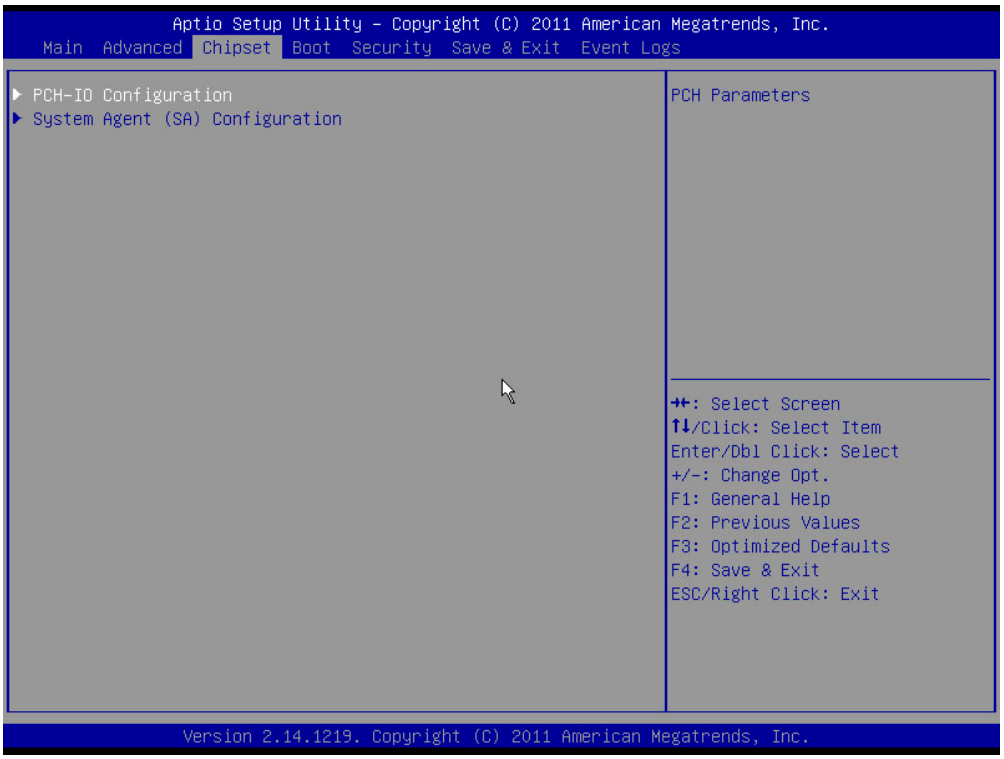


Chipset

Use the **Chipset** menu to access the PCH-IO configuration and System Agent (SA) configuration menus.

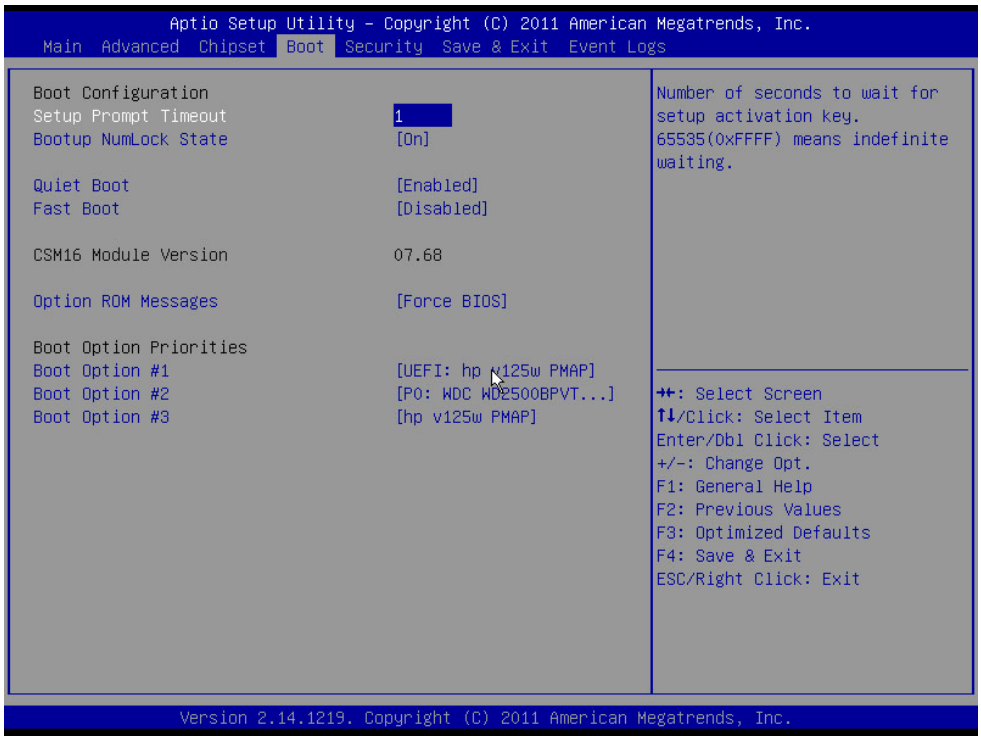
WARNING!

Setting the wrong values for the Chipset BIOS selections in the Chipset BIOS menu may cause the system to malfunction.


Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc.
Main Advanced Chipset Boot Security Save & Exit Event Logs
PCH-IO Configuration
System Agent (SA) Configuration
PCH Parameters
→←: Select Screen
↑↓/Click: Select Item
Enter/Dbl Click: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC/Right Click: Exit
Version 2.14.1219. Copyright (C) 2011 American Megatrends, Inc.

Boot

Use the **Boot** menu to configure system boot priority options.



BIOS Menu 8: Boot

➔ **Boot NumLock State**

Use the **Boot NumLock State** to allow Number lock setting to be modified during boot up.

➔ On Default Allows Num Lock on keyboard on boot up.

➔ **Quiet Boot**

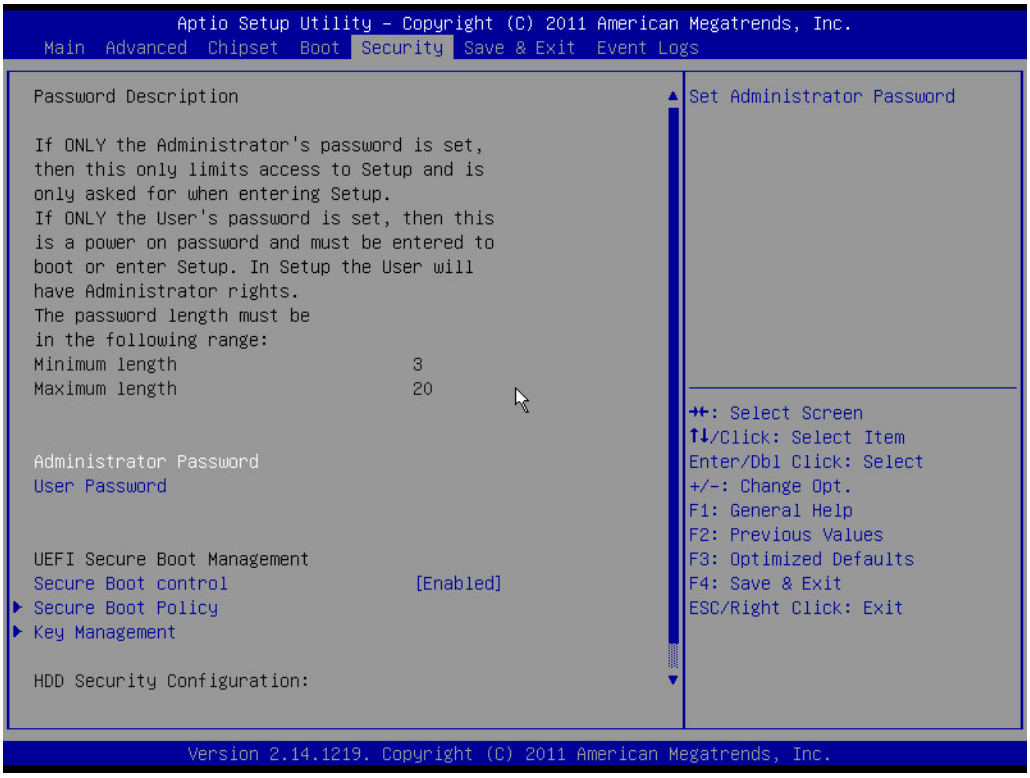
Use the **Quiet Boot** to allow the boot up screen options to be modified between POST messages or OEM Logo.

➔ Enabled Default Enables Quiet Boot.

Boot Option Priorities: Set to determine sequence in which computer checks which device to boot from.

Security Settings

Use the **Security Settings** menu to set passwords for administrator/user.


Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc.
Main Advanced Chipset Boot Security Save & Exit Event Logs
Password Description
If ONLY the Administrator's password is set, then this only limits access to Setup and is only asked for when entering Setup.
If ONLY the User's password is set, then this is a power on password and must be entered to boot or enter Setup. In Setup the User will have Administrator rights.
The password length must be in the following range:
Minimum length 3
Maximum length 20
Administrator Password
User Password
UEFI Secure Boot Management
Secure Boot control [Enabled]
Secure Boot Policy
Key Management
HDD Security Configuration:
Set Administrator Password
→←: Select Screen
↑↓/Click: Select Item
Enter/Dbl Click: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC/Right Click: Exit
Version 2.14.1219. Copyright (C) 2011 American Megatrends, Inc.

➔ **Administrator Password**

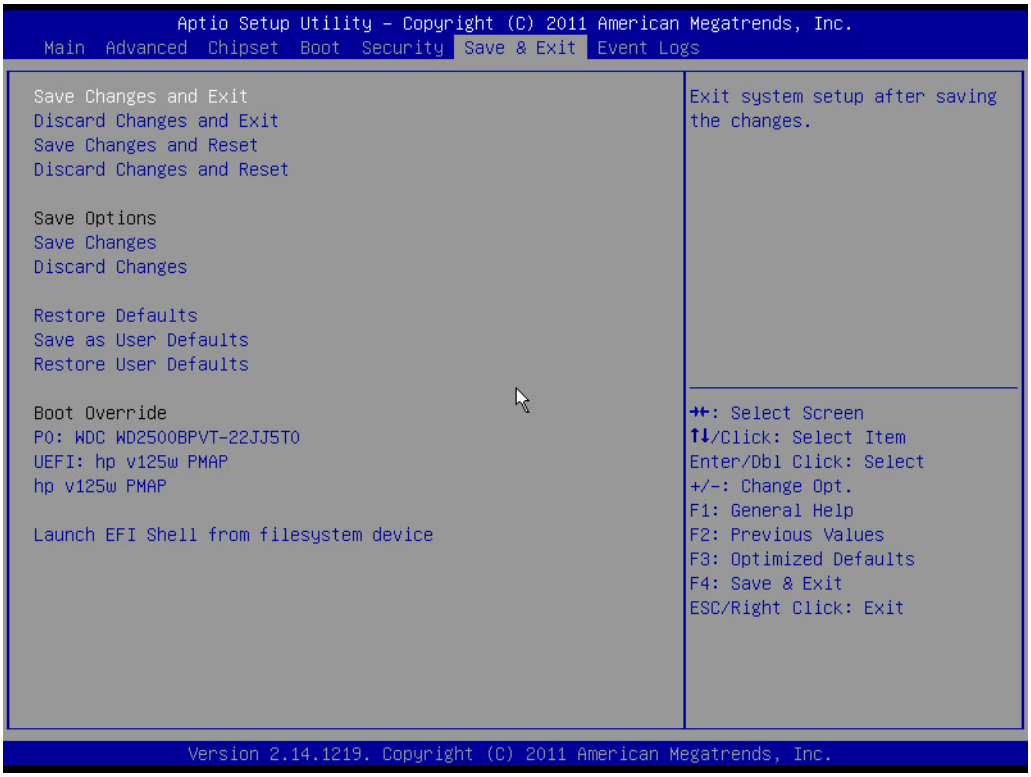
Use Administrator Password to set Administrator Password.

➔ **User Password**

Use User Password to set User Password.

Exit

Use the **Exit** menu to load default BIOS values, optimal failsafe values and to save configuration changes.


Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc.
Main Advanced Chipset Boot Security Save & Exit Event Logs
Save Changes and Exit
Discard Changes and Exit
Save Changes and Reset
Discard Changes and Reset
Save Options
Save Changes
Discard Changes
Restore Defaults
Save as User Defaults
Restore User Defaults
Boot Override
P0: WDC WD2500BPVT-22JJ5T0
UEFI: hp v125w PMAP
hp v125w PMAP
Launch EFI Shell from filesystem device
Exit system setup after saving the changes.
→←: Select Screen
↑↓/Click: Select Item
Enter/Dbl Click: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC/Right Click: Exit
Version 2.14.1219. Copyright (C) 2011 American Megatrends, Inc.

BIOS Menu 9:Exit

➔ **Save Changes and Exit**

Use the **Save Changes and Exit** option to save the changes made to the BIOS options and to exit the BIOS configuration setup program.

➔ **Discard Changes and Exit**

Use the **Discard Changes and Exit** option to never save the changes made to the BIOS options and to exit the BIOS configuration setup program.

➔ **Save Changes and Reset**

Use the **Save Changes and Reset** option to reset system saving current changes.

➔ **Discard Changes and Reset**

Use the **Discard Changes and Reset** option to reset system discarding current changes.

➔ **Save Changes**

Use the **Save Changes** option to save the changes made to the BIOS options and to not exit the BIOS configuration setup program.

➔ **Discard Changes**

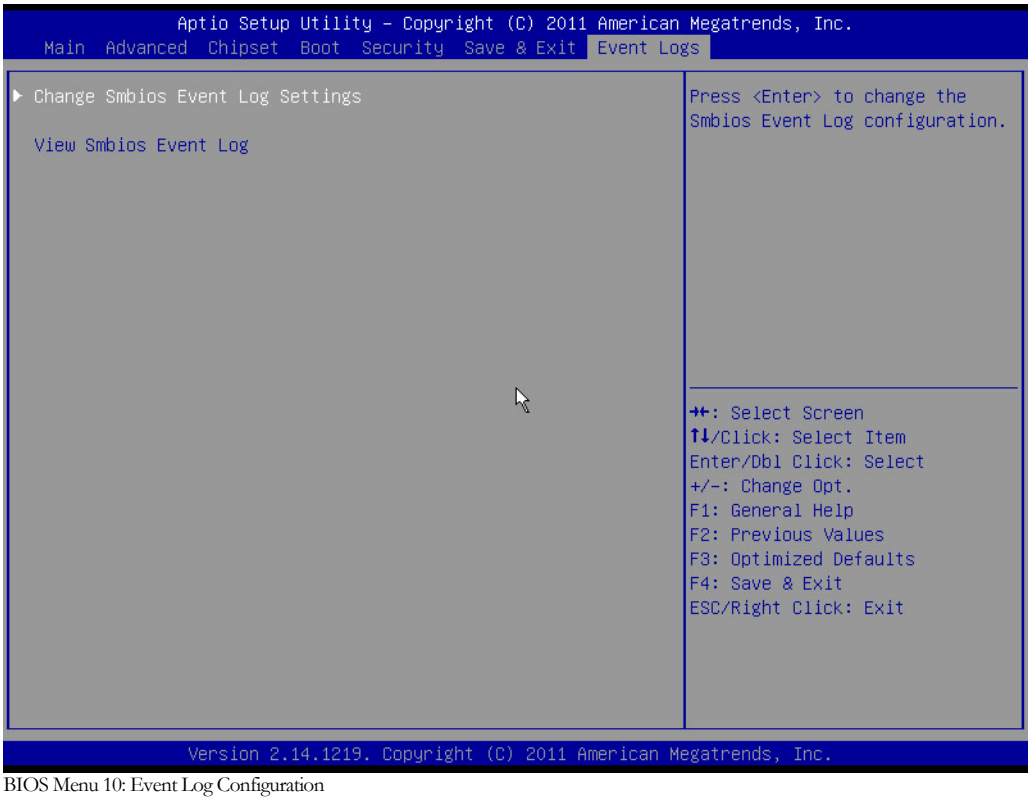
Use the **Discard Changes** option to load the original value of this boot time.

➔ **Restore Defaults**

Use the **Restore Defaults** option to reset all standard default values.

Event Log Configuration

Use the **Event Log Configuration** menu to view or delete the system event log storing POSt and run-time errors and events.


Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc.
Main Advanced Chipset Boot Security Save & Exit Event Logs
Change Smbios Event Log Settings
View Smbios Event Log
Press <Enter> to change the Smbios Event Log configuration.
→←: Select Screen
↑↓/Click: Select Item
Enter/Dbl Click: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC/Right Click: Exit
Version 2.14.1219. Copyright (C) 2011 American Megatrends, Inc.
BIOS Menu 10: Event Log Configuration

➔ Change Smbios Event Log Settings

Enable the **Change Smbios Event Log Settings** option to change the Smbios Event Log configuration.

➔ View Smbios Event Log

Enable the **View Smbios** option to view Smbios event logs.

ROUTINE MAINTENANCE

CARE OF EQUIPMENT

Prevent costly damage to your POS equipment:

- Never allow a unit to drop.
- Never allow napkins, boxes, or other objects to block air vents on the printers, videos, PCs, or registers. These units have to "breathe" to operate efficiently.
- Make sure nylon or rubber grommet (washer) protects each hole punched through the counter top and other metal surfaces. Metal edges may cut through cables.
- Never break open a roll of coins by striking it against the cash drawer.
- Never switch a cash drawer with any other housing (case). The cash drawer and its housing are a matched set.
- Never drag a printer. Dragging weakens the cable. Lift a printer to move it.
- Always turn off or unplug units during power failures.
- Never unplug a unit when the power switch is on.

CLEANING EQUIPMENT

Clean the surfaces of all POS units often:

1. Turn off the unit.
2. Dampen a clean towel with carbonated water or Windex. Make sure the towel is damp, not saturated.
3. Wipe off the unit with the damp towel. Never pour carbonated water directly on a unit.

WARNING: Never use abrasive materials to clean the touch screen on a register. A scratch on the surface could disable the register, and result in costly repairs.

4. When done, turn the unit back on.

SAFETY

- Before connecting cables or devices to connector wells, please turn off the power first thus preventing potential ESD damage.

- The service related to human safety is not allowed because this device may have the possibility of the radio interference.

- As this equipment has undergone EMC registration for business purpose (“A” class), the seller and/or the buyer is asked to beware of this point and designed to be used in the area, except for home use.

- Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

PAR PHONE NUMBERS

Service

USA: 800.382.6200

Canada: 800.387.4963

Parts

USA: 800.PAR.PART

Canada: 800.387.4963

Sales

Continental USA except New York: 800.448.6505

New York State Only: 800.533.6311

Outside Continental USA: 315-738-0600

Driver Support

http://www.partech.com/restaurant/services/contact-support/